

ESTON
URBAN DISTRICT COUNCIL



ANNUAL REPORT



of the

Medical Officer of Health

and

Chief Public Health Inspector



1962

The Urban District of Eston

Chairman of the Council :
COUNCILLOR HOWARD VAUX, J.P.

PUBLIC HEALTH COMMITTEE :
Chairman :
COUNCILLOR PHILIP ARTHUR DOWSON.

Committee :
Councillors Briggs, J.P., Buxton, J.P., Finegan, J.P., Gavin, J.P.,
Ginty, J.P., Herlingshaw, Hickman, Jackson, Mead, Mrs. Metcalfe,
Mole, Richardson, Turnbull, Walsh, Wilson, J.P., and Mrs. Wilkinson.

PUBLIC HEALTH DEPARTMENT :
Medical Officer of Health :
THOMAS PATRICK BINNS, M.R.C.S., L.R.C.P., D.P.H.

**Chief Public Health Inspector and
Cleaving Superintendent :**
JAMES H. BURROWS, C.R.S.H., A.M.I.P.H.E., M.A.P.H.I.,
A.M. Inst. P.C.

Additional Public Health Inspectors :
WILLIAM VERRILL, C.R.S.H., M.A.P.H.I.
(Certified Meat and Food).
LESLIE CORNFORTH, C.R.S.H., M.A.P.H.I.
(Certified Meat and Food).
MICHAEL COSGROVE, C.R.S.H., M.A.P.H.I.
(From 1.12.62) (Certified Meat and Food).

Pupil Public Health Inspector :
DOUGLAS H. KIRK.

Clerks : NORMAN FORD.
MISS M. COLWELL.
MRS. D. GOODMAN.



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**ANNUAL REPORT OF
THE MEDICAL OFFICER OF HEALTH
FOR THE YEAR 1962.**

To the Chairman and Members of
the Eston Urban District Council :

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present the Annual Report on the health of this district for the year ended 31st December, 1962, this being my third Annual Report.

In the main, the health of your Urban District has been satisfactory during the year as is indicated by a death rate below the average for England and Wales. There are however points to which I should like to draw special attention.

The Infant Death Rate is too high for complacency. This year the rate of 33.1 per 1,000 is far above the national rate of 21.4 per 1,000, but of course, in dealing with a small area, fluctuations are inevitable. Analysis of the deaths indicates prematurity and pneumonia as the two outstanding causes of infant deaths. The remedy lies in raising the standard of antenatal care and improving the general standard of living, particularly with regard to housing and atmospheric conditions—the latter unfortunately deteriorated a little during the year under consideration.

An invitation from the Health Committee to the Tobacco Manufacturers' Standing Committee to undertake an investigation into deaths from Lung Cancer and Bronchitis was accepted, and A.G.B.

Research Ltd., under the guidance of the M.O.H., have been working on it for some time. No figures are yet available, but an absolutely unbiased survey of this nature will be of the greatest value when it is complete. The survey has now been extended to cover quite a large area but it must not be forgotten that the inspiration came from the Public Health Committee of your Urban District Council, and that the very considerable cost of it is being borne by the Tobacco Research Council.

My thanks are due to Members of the Council for their help and support during the year and to the Officials of the Council for their co-operation in maintaining health standards and in the production of information incorporated in this report.

I am,
Your obedient servant,
T. P. BINNS,
Medical Officer of Health.

SECTION A.

Statistics and Social Condition

of the Area.

Population.

The Registrar General's estimate of the population of the district in the mid-year 1962 was 37,410 as compared with an estimate of population for the mid-year 1961 of 36,970.

Registrar General's estimate mid-year				1956	...	...	34,510
„	„	„	„	1957	...	...	34,890
„	„	„	„	1958	...	...	35,310
„	„	„	„	1959	...	...	35,750
„	„	„	„	1960	...	...	36,180
„	„	„	„	1961	...	...	36,970

GENERAL STATISTICS.

I am indebted to the Council's Treasurer who has supplied me with the following statistics :—

Area of the District	...	...	...	...	5,559 acres
Number of inhabited houses (end of 1962)	approx. 11,172				
Rateable value (end of 1962)	...	...	...	...	£873,227
Produce of penny rate :					
1961/62 (actual)	...	...	...	...	£3,477 14s. 1d.
1962/63 (estimated)	...	...	...	...	£3,700

SOCIAL CONDITIONS.

There has not been a great deal of change in conditions of living within the Urban District during the year, and in fact, little can be done till many more good quality houses in suitable localities become available for the rehousing of families at present living in unsatisfactory houses. The year has however produced some improvement and on the whole social conditions are satisfactory with the exception of a few small areas on which work has already been started. The work of rehousing families from prefabricated houses has of course used up some of the available new houses, but is nevertheless valuable work which will improve the health of a number of families.

EXTRACTS FROM VITAL STATISTICS.

BIRTHS.

Live Births :				Total	Male	Female
Legitimate	...	...	...	855	433	422
Illegitimate	...	...	...	51	27	24

Birth Rate per 1,000 of the estimated resident population—24.2

Rate for England and Wales—18.0

Illegitimate Live Births per cent. of total Live Births—5.6.

Still Births :—				Total	Male	Female
Legitimate	...	...	...	20	13	7
Illegitimate	...	...	...	3	1	2

Rate per 1,000 (live and still) births—24.8.

DEATHS.

Infant deaths under one year—30.

Infant Mortality Rates :

Total infant deaths per 1,000 live births ...	...	33.1
Legitimate infant deaths per 1,000 legitimate live births ...	...	32.7
Illegitimate infant deaths per 1,000 illegitimate live births ...	...	39.2

Neonatal mortality rate—19.9 per 1,000 live births.

Early neonatal mortality rate—16.6 per 1,000 live births.

Perinatal mortality rate—40.9 per 1,000 live and still births.

Infant Mortality Rate for England and Wales—21.4 per 1,000.

Total Deaths—375. Male—217. Female—158.

Death rate per 1,000 of the estimated resident population—10.

Rate for England and Wales—11.9.

ANALYSIS OF DEATHS IN AGE GROUPS.

The deaths which occurred during the year, divided into age groups, are as follows :—

30 deaths under one year of age.					
—	„	over	1	and under	5 years.
—	„	„	5	„	10 „
3	„	„	10	„	15 „
5	„	„	15	„	25 „
26	„	„	25	„	45 „
98	„	„	45	„	65 „
104	„	„	65	„	75 „
109	„	„	75 years of age.		

ANALYSIS OF INFANT MORTALITY 1962.

Cause of death	Under 1 week	1 - 2 weeks	2 - 3 weeks	3 - 4 weeks	Total under 4 weeks	1 - 3 months	3 - 6 months	6 - 9 months	9 - 12 months	Total deaths under 1 year
Pneumonia	1	1	—	—	2	2	3	2	—	9
Asphyxia	—	—	—	—	—	1	—	—	—	1
Prematurity	9	1	—	—	10	—	—	—	—	10
Misadventure (inhalation of regurgitated food)	—	—	—	—	—	1	—	—	—	1
Haemorrhagic disease of new-born	1	—	—	—	1	—	—	—	—	1
Cerebral haemorrhage	2	—	—	—	2	—	—	—	—	2
Congenital heart disease	—	—	1	—	1	1	1	—	1	4
Atelectasis	2	—	—	—	2	—	—	—	—	2
Totals	15	2	1	—	18	5	4	2	1	30

CAUSES OF DEATH

							M.	F.
Tuberculosis (respiratory)	...	...	...	...			I	—
Other infective and parasitic diseases			...	...			—	I
Malignant disease (all forms)	...	...	...	...			54	28
Leukaemia	...	...	...	...	...	...	I	—
Diabetes	...	...	...	...	...	...	—	I
Vascular lesions of nervous system	...	...	...	...			19	27
Heart diseases	...	...	...	...	...	...	50	50
Other circulatory disease	...	...	...	...			18	9
Influenza	...	...	...	...	...	...	2	—
Pneumonia	...	...	...	...	...	...	13	16
Bronchitis	...	...	...	...	...	...	12	2
Other diseases of respiratory system	...	...	...	...			2	—
Ulcer of stomach & duodenum	...	...	...	...			3	2
Gastritis, enteritis and diarrhoea	...	...	...	...			—	I
Nephritis and nephrosis	...	...	...	...			2	2
Hyperplasia of prostate	...	...	...	...			5	—
Congenital malformations	...	...	...	...			2	2
Other defined & ill-defined diseases	...	...	...	...			20	11
Motor vehicle accidents	...	...	...	...			5	I
All other accidents	...	...	...	...	...	...	6	3
Suicide	...	...	...	...	...	...	I	I
Homicide & operations of war	...	...	...	...			I	I
							<hr/> 217 <hr/>	<hr/> 158 <hr/>

SECTION B.

General Provision of Health Services in the Area.

The details of the staff are given at the beginning of the Report.

LABORATORY FACILITIES.

As in previous years, these are provided at the Public Health Laboratory, Middlesbrough, and the service is always very efficient.

AMBULANCE FACILITIES.

The Ambulance Service is under the North Riding County Council and the vehicles are based at Redcar depot.

NURSING IN THE HOMES.

The Home Nursing and Domiciliary Midwifery Service is under the general direction of the County Council with the day to day administration under the control of the Eston Area Local Health Sub-Committee. The staff employed consists of 8 Midwives, 6 full-time District Nurses and 5 relief Nurses.

During the year the Midwives attended 357 births.

During the year the District Nurses paid 15,869 visits.

DOMESTIC HELP SERVICE.

A Domestic Help Service is provided by the North Riding County Council. The 26 Domestic Helps available attended 227 cases during the year.

SECTION C.

Sanitary Circumstances.

Details of the sanitary conditions in the area are dealt with in the report of the Chief Public Health Inspector.

SECTION D.

HOUSING.

Housing details are given in the report of the Chief Public Health Inspector, but I am very pleased to incorporate here a special report on housing prepared by Mr. Jones, Housing Manager.

“During the year 297 dwellings were constructed for ordinary letting and in addition five aged persons’ meeting rooms with wardens’ quarters were completed and brought into use.

The total number of Council owned dwellings has not, however, increased during the year by an equivalent number owing to the programme of clearing prefabricated bungalow sites.

Details of dwellings (excluding 14 “acquired premises”) owned by the Council at 31st December, 1962 are:—

Type of Dwelling	No. built pre-war	No. built post-war	Totals
Aged persons' bungalows	142	221	363
Aged persons' meeting rooms	—	6	6
Two-bedroomed houses (including temporary houses)	428	639	1,067
Flats or maisonettes	—	99	99
Three-bedroomed houses	671	1,699	2,370
Four-bedroomed houses	66	62	128
	1,307	2,726	4,033

(NOTE.—The post-war total of three-bedroomed houses includes 11 rebuilt after being destroyed. This number has been deducted from the pre-war total)”.

SECTION E.

Meat and other Foods.

This is dealt with by the Chief Public Health Inspector.

SECTION F.

Prevalence and Control over Infectious Diseases.

Infectious Diseases amongst children in the area :—

			Under 5 years.	Over 5 years.	Total
Scarlet Fever	...	...	1	1	2
Measles	...	...	228	87	315
Whooping Cough	...		7	—	7
Polio-myelitis (N.P.)	...		1	—	1
Sonne Dysentery	...		3	2	5
Meningococcal infection			1	—	1
Chicken Pox	...	...	1	—	1
Mumps	...	...	1	—	1

A further outbreak of Measles this year was rather surprising. It was however of a mild type and of nuisance value rather than a serious menace to health.

Immunisation against Diphtheria, Whooping Cough and Polio-myelitis is available in the clinics at Normanby, South Bank and Grangetown. Vaccination was done on a much larger scale this year, partly in the Clinics and partly by General Practitioners.

ANALYSIS OF THE TOTAL NOTIFIED CASES OF INFECTIOUS DISEASES (OTHER THAN TUBERCULOSIS) IN AGE GROUPS.

TOTAL CASES NOTIFIED														TOTAL DEATHS												
Disease	Under I Year		1	2	3	4	5	10	15	20	35	45	65	Under I Year		1	2	3	4	5	10	15	20	35	45	65
	to	2	to	3	to	4	to	5	to	10	to	15	to	and over	to	2	to	3	to	4	to	5	to	10	to	and over
Scarlet Fever	—	—	I	—	—	—	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Measles	18	74	59	64	50	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Whooping Cough	4	I	I	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Poliomyelitis (N.P.)	—	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sonne																										
Dysentery	—	2	I	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Erysipelas	—	—	—	—	—	—	—	—	—	—	—	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Food Poisoning	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Meningococcal Infection	—	—	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	23	78	63	65	50	53	—	—	—	—	—	I	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTIFIABLE INFECTIOUS DISEASES IN THE WARDS.

WARDS	Scarlet Fever	Measles	Whooping Cough	Sonne Dysentry	Erysipelas	Food Poisoning	Meningococcal Infection
Normanby	—	—	—	—	—
North West	1	35	2	—	—
West Central	—	1	22	1	—
East Central	—	1	17	—	—
Harcourt	—	1	30	—	—
Tilery	—	25	—	—	—
Grangetown	—	70	1	1	1
South Bank	—	22	1	—	—
Branch	1	43	—	1 (N.P.)	—
Total	2	315	7	5	1 (N.P.)

TUBERCULOSIS.

NEW CASES AND MORTALITY DURING 1962.

Particulars of new cases of Tuberculosis notified during the year and of all deaths from this disease are shown in the following Table in age groups :—

Age Groups	CASES NOTIFIED				DEATHS			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year	—	—	—	—	—	—	—	—
1 to 5 years	—	—	—	—	—	—	—	—
5 „ 10 years	—	—	—	—	—	—	—	—
10 „ 15 years	—	—	—	—	—	—	—	—
15 „ 20 years	2	3	—	—	—	—	—	—
20 „ 25 years	1	—	1	—	—	—	—	—
25 „ 35 years	2	—	—	—	—	—	—	—
35 „ 45 years	1	—	—	—	—	—	—	—
45 „ 55 years	2	1	—	—	—	—	—	—
55 „ 65 years	—	1	—	—	1	—	—	—
65 years and over	1	—	—	—	—	—	—	—
Totals	9	5	1	—	1	—	—	—

The total number of cases notified shows a decrease of 17 as compared with 1961 and the deaths 1 as against 4 in 1961.

ANNUAL REPORT OF THE CHIEF PUBLIC HEALTH INSPECTOR FOR THE YEAR, 1962.

To the Chairman and Members of the
Eston Urban District Council.

Mr. Chairman, Ladies and Gentlemen,

It affords me considerable pleasure to contribute this my fourteenth report towards the Annual Report of your Public Health and Cleansing Department.

In the work of Housing, particularly Slum Clearance, a start has been made in the north end of South Bank and this is to be considerably extended together with north Grangetown, within the ensuing year. Improvement Grants have been steadily dealt with and work in connection with Food, Atmospheric Pollution and Public Cleansing has been pursued throughout the year. More details of these services are given within the body of the Report.

In conclusion may I express my thanks and appreciation to the Chairman and Members of the Public Health and Markets Committee, the Medical Officer of Health, other Chief Officers of your authority together with the Staff and Workmen of the Department whose co-operation has been invaluable towards the successful outcome of the year's work.

I remain,

Yours obediently,

JAMES H. BURROWS,

Chief Public Health Inspector and
Cleansing Superintendent.

HOUSING.

Number of new houses erected during the year :—

(a)	Total (including numbers given separately under (b))	...	391	
(b)	(1)	For Local Authority —Permanent	...	298
	(2)	—Temporary	...	nil
	(3)	Other than Local Authority	...	93

1. Inspection of Dwelling Houses during the year :—

(1)	(a)	Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts)	...	...	...	...	500
	(b)	Number of inspections made for the purpose					1,467

2. Remedy of Defects during the year without service of formal notices :—

	Number of defective houses rendered fit in consequence of informal action by the Local Authority or their Officers	401
--	--	-----	-----	-----	-----

3. Proceedings under Public Health Acts :—

(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied	...	...	...	4
(2)	Number of dwelling houses in which defects were remedied after the service of notices :—				
(a)	By Owners	...	...	...	5
(b)	By Local Authority in default of Owners	...	...	...	nil

4. Overcrowding.

No survey has been carried out in post war years but the present "Points Scheme" control does provide for those applicants living under overcrowded conditions and who desire a Council House.

Information supplied by the Housing Manager indicates that 95 overcrowded families were rehoused by your Authority during the year and this will no doubt be improved upon as Council House building is accelerated.

During the year, approximately 609 applications were received by your Authority for Council Houses and records of lettings were as follows :—

Sub-tenants	94
Overcrowded families	95
Tuberculosis in family	7
Aged Persons	70
Key Workers	3
Slum Clearance	29
Staff Housing, General Medical and Special Cases	22
Non Overcrowded Tenants	19
Total	339

IMPROVEMENT GRANTS

28 applications were received during the year. In each case estimates and specifications in connection with works ranking for grant and works of repair were prepared in the Department. This in my opinion is the only method which provides a true final check and safeguards the Authority against shoddy work as grant can be withheld until the works are completed satisfactorily.

The applications for Improvement Grant were dealt with as under :—

Grants Made	18
Not qualified for Grant	1
Applications withdrawn	—
Applications pending	9

CLEARANCE AREAS.

There is ample opportunity for Clearance Area work to be effected in certain parts of your District. Progress has been very slow but it is hoped that with accelerated housing development the Authority will find it opportune to allocate more houses for slum clearance and a regular yearly programme of clearance and demolition works can be undertaken.

During the year Clearance Orders comprising 17 houses were confirmed and a five year programme approved by your Authority has been embarked upon to cover approximately 1,000 houses.

WATER

During the year 4 samples of water were taken in conjunction with the personnel of the Tees Valley and Cleveland Water Board from user points within your District. These were submitted for bacteriological examination and all proved to be satisfactory.

Regular sampling is undertaken by the Cleveland and Tees Valley Water Board Staff who have forwarded the following information:—

The water supply to the area has been satisfactory in quality and quantity during the year 1962. Bacteriological examinations of the raw water are carried out approximately weekly and the water supply is examined as it leaves the works and at various points in the distribution system. Over 50 samples per month of the treated water were taken for bacteriological examination and the results showed the supply to be of satisfactory purity throughout the year.

The supply to the Eston Urban District Council area is partly from Long Newton Reservoir and partly from the new Lartington Rapid Gravity Filtration Plant supply.

In Long Newton Reservoir, water from Lartington Gravitation supply is mixed with one quarter of its own volume of water from the River Tees derived supply. The treatment of the Lartington Gravitation supply consists of Slow Sand Filtration followed by treatment with ammonia and chlorine. The River Tees derived supply and the new Lartington Rapid Gravity Filtration plant supply are clarified by coagulation methods followed by Rapid Gravity Filtration and pH adjustment. Sterilisation with chlorine completes the treatment.

The water leaving Long Newton Reservoir is filtered through microstrainers, which consist of revolving drums of stainless steel wire mesh with 160,000 apertures to the square inch, and then re-chlorinated before passing into supply.

Summaries of bacteriological and chemical analysis results for the River Tees derived supply; the Lartington Gravitation supply; the Lartington (New) Rapid Gravity Filtration Plant supply; and the Long Newton Blended water, are appended.

The water has no plumbo-solvent action.

RIVER TEES DERIVED SUPPLY FROM

BROKEN SCAR WORKS, DARLINGTON

Summary of analysis results 1st January—31st December, 1962.

Chemical results are expressed as parts per million except where otherwise stated.

Chemical Results.

	Average.	Maximum.	Minimum.
Ammoniacal Nitrogen	0.028	0.230	Nil
Albuminoid Nitrogen	0.050	0.110	0.010
Nitrite Nitrogen	<0.002	0.006	<0.001
Nitrate Nitrogen	0.7	1.9	0.2
Oxygen absorbed from perman- ganate in 4 hours at 27° C	1.1	2.6	0.5
Colour (Hazen Units)	7	15	3
Turbidity as Silica	<3	7	<3
pH.	7.4	7.9	6.6
Free Carbon Dioxide	4.5	14	1
Alkalinity as CaCO ₃	63	128	20
Carbonate Hardness as CaCO ₃ ...	63	128	20
Non-carbonate Hardness as CaCO ₃	45.5	70	29
Total Hardness as CaCO ₃ ...	108.5	170	60
Calcium Hardness as CaCO ₃ ...	86	133	60
Magnesium Hardness as CaCO ₃	14.5	28	7
Chloride as Cl	10	15	5
Phosphates as P ₂ O ₅	<0.04	<0.04	<0.04
Silicates as SiO ₂	3.5	6	2
Iron as Fe	0.09	0.36	Nil
Potassium as K	1.3	2.25	0.75
Sodium as Na	6.8	9.3	3.9
Total solids dried at 105° C ...	163	237	100
Electric Conductivity	250	340	150

< = Less than

The above estimations were not all carried out on the same number of samples.

Bacteriological Results.

	Average.	Maximum.	Minimum.
Colony count per ml. on yeast extract agar after 1 day at 37° C.	4	21	0
Colony count per ml. on yeast extract agar after 2 days at 37° C.	5	28	0
Colony count per ml. on yeast extract agar after 3 days at 20° C.	4	19	0
Percentage of samples giving no Presumptive Coliform reaction per 100 ml. ... ..	...	...	100%
Percentage of samples showing no reaction for B.Coli (type I) per 100 ml....	...	...	100%

LARTINGTON GRAVITATION SUPPLY.

Summary of analysis results, 1st January—31st December, 1962.

Chemical results are expressed as parts per million except where otherwise stated.

Chemical Results.

		Average.	Maximum.	Minimum.
Ammoniacal Nitrogen	...	0.070	0.225	nil.
Albuminoid Nitrogen	...	0.103	0.240	0.049
		approx.	approx.	
Nitrite Nitrogen	... ..	0.001	0.1	nil.
Nitrate Nitrogen	... ..	0.52	1.9	0.25
Oxygen absorbed from perman- ganate in 4 hrs. at 27° C.		6.9	11.0	4.2
Colour (Hazen Units)...	...	74	140	25
Turbidity as Silica	... ..	6	45	<3
pH.	... ..	7	7.5	6.6
Free Carbon Dioxide	...	7	28	2.5
Alkalinity as CaCO ₃	... ..	34.5	52	25
Carbonate Hardness as CaCO ₃		34.5	52	25
Non-carbonate Hardness as CaCO ₃		12.5	25	nil.
Total Hardness as CaCO ₃	...	47	60	40
Calcium Hardness as CaCO ₃		41	47	34
Magnesium Hardness as CaCO ₃		6	9	3
Chlorides as Cl	... ..	8	12	7
Phosphates as P ₂ O ₅	... ..	<0.04	<0.04	<0.04
Silicates as SiO ₂	... ..	3	4	1
Iron as Fe	... ..	0.29	1.3	<0.04
Potassium as K	... ..	0.77	0.85	0.65
Sodium as Na	... ..	4	4.4	3.4
Total solids dried at 105 °C		93	150	73
Electric Conductivity	...	120	195	100

< = Less than.

The above estimations were not all carried out on the same number of samples.

Bacteriological Results.

	Average.	Maximum.	Minimum.
Colony count per ml. on yeast extract agar after 1 day at 37° C.	23	76	nil.
Colony count per ml. on yeast extract agar after 2 days at 37° C.	30	80	nil.
Colony count per ml. on yeast extract agar after 3 days at 20° C.	23	80	nil.
Percentage of samples giving no Presumptive Coliform reaction per 100 ml.	... ..	... ..	100%
Percentage of samples showing no reaction for B. Coli (Type 1) per 100 ml.	... ..	... ..	100%

LARTINGTON RAPID GRAVITY FILTRATION PLANT

Summary of Analysis Results.

17th July to 31st December, 1962.

Chemical Results expressed as parts per million except where otherwise stated.

Chemical Results

			Average	Maximum	Minimum
Ammoniacal Nitrogen	...	...	0.043	0.16	0.007
Albuminoid Nitrogen	...	...	0.05	0.08	0.02
Nitrite Nitrogen	...	...	0.003	0.01	<0.001
Nitrate Nitrogen	...	...	<0.27	0.4	<0.25
Oxygen absorbed from permanganate in 4 hours at 27°C.	...	...	0.9	1.6	0.5
Colour (Hazen)	...	...	4	5	3
Turbidity as Silica	...	...	<3	13	0.1
pH	...	...	6.85	8.2	6.4
Free Carbon Dioxide	...	...	4	8	Nil
Alkalinity as CaCo ₃	...	...	26	43	18
Carbonate Hardness as CaCo ₃	...	...	26	43	18
Non-Carbonate Hardness as CaCo ₃	...	...	45	52	30
Total Hardness as CaCo ₃	...	...	71	78	64
Calcium Hardness as CaCo ₃	...	...	65	72	58
Magnesium Hardness as CaCo ₃	...	...	6	10	1
Chlorides as Cl.	...	...	20	22.5	17
Phosphate as P ₂ O ₃	...	...	<0.04	<0.04	<0.04
Silicate as SiO ₂	...	...	2	4	1
Iron as Fe	...	...	0.09	0.22	<0.04
Potassium as K	...	...	0.7	0.85	0.6
Sodium as Na	...	...	4	4.5	3.6
Total solids dried at 105°C.	...	...	135	160	109

< = less than.

Bacteriological Results

			Average	Maximum	Minimum
Colony count per ml. on yeast extract after 1 day at 37°C.	...	...	<1	12	0
Colony count per ml. on yeast extract after 2 days at 37°C.	...	...	2	23	0
Percentage of samples giving no Presumptive Coliform reaction per 100 ml.	...	...	...	...	100%
Percentage of samples giving no reaction for B. Coli (Type 1) per 100 ml.	...	...	...	...	100%

LONG NEWTON RESERVOIR DISTRIBUTION ZONE.

Summary of analysis results on the water leaving Long Newton
Reservoir

1st January to 31st December, 1962.

Chemical Results are expressed as parts per million except where
otherwise stated.

		Average.	Maximum.	Minimum.
Ammoniacal Nitrogen	...	0.069	0.100	0.030
Albuminoid Nitrogen	...	0.106	0.130	0.075
Nitrite Nitrogen	... ..	0.002	0.004	<0.001
Nitrate Nitrogen	... ..	0.3	0.6	<0.25
Oxygen absorbed from perman- ganate in 4 hours at 27° C.		4.6	7.7	3.3
Colour (Hazen Units)	...	45	80	15
Turbidity as Silica	... ..	4	11	<3
pH.	... ..	7.2	7.4	6.9
Free Carbon Dioxide	...	3.5	8	2
Alkalinity as CaCO ₃	... ..	44	54	35
Carbonate Hardness as CaCO ₃		44	54	35
Non-carbonate Hardness as CaCO ₃		23	35	14
Total Hardness as CaCO ₃	...	67	77	52
Calcium Hardness as CaCO ₃	...	57	64	44
Magnesium Hardness as CaCO ₃		10	13	7
Chloride as Cl	... ..	11.5	13.5	10.5
Phosphate as P ₂ O ₅	... ..	<0.04	<0.04	<0.04
Silicate as SiO ₂	... ..	2.3	4	<1
Iron as Fe	... ..	0.09	0.2	<0.04
Potassium as K	... ..	0.85	1.3	0.75
Sodium as Na	... ..	4.4	5.4	3.9
Total solids dried at 105°C	...	119	147	87

Bacteriological Results.

Percentage of samples giving no Presumptive Coliform reaction per 100ml.	... ..	99.7%
Percentage of samples giving no B. Coli (Type 1) per 100ml.		99.7%

< = Less than.

DITCHES AND WATER-COURSES.

10 visits were made by the staff relative to complaints of obstructions and pollution of streams and stagnant water. Work of clearance was referred to the Department of the Engineer and Surveyor for attention.

SANITARY ACCOMMODATION.

All residential and business properties in your district are provided with water closets. With the building of new houses approximately 391 additional water closets were installed this year which makes a total of approximately 11,470 for the whole area.

PUBLIC CONVENIENCES.

A further modern public convenience was provided at Normanby during the year. It gives me great pleasure to report that your Committee have agreed to the replacement of two outmoded public conveniences in the Grangetown area with one, more centrally situated catering for both sexes and providing modern up to date fitments.

SANITARY INSPECTION OF THE AREA.

The following is a tabulated statement of the number and nature of the inspections carried out during the year under the various Acts, Orders and Bye-laws in force within the District :—

Inspections under Public Health Act, etc.	...	...	1,058
Re-inspections under above relative to Houses	...	...	993
Interviews with Builders, Owners and others	...	...	1,644
Complaints investigated	...	...	686
Inspection of :—			
Bakehouses	...	...	26
Dairies and Distributors	...	...	6
Butchers' Shops and Slaughterhouses	...	...	245
Markets and Food Stores	...	...	653
Fish and Fried Fish Shops	...	...	7
Factories and Workplaces	...	...	70
Works of Building operations	...	...	5
Public Halls and other Buildings	...	...	45
Conveniences (Public)	...	...	166
Rat Infested Premises	...	...	1,726
Verminous and filthy Premises	...	...	134
Infectious Disease	...	...	190
Terminal Disinfection	...	...	14
Drain Examinations	...	...	224
Registered Preparation Rooms—Food and Drugs Act	...	...	124
Mobile Shops	...	...	105
Houses Let in Lodgings	...	...	36

Accumulations of rubbish	...	...	...	...	112
Tents, Vans and Sheds	...	...	...	...	109
Streams and Stagnant Water	...	...	...	...	10
Re Council House Lettings	...	...	...	...	723
Refuse Collection, Disposal, Salvage and Street Sweeping					861
Miscellaneous Visits not enumerated above	...	...			284

SUMMARY OF WORK CARRIED OUT UNDER NOTICES SERVED.

The various works completed during the year under notices served or on intimation to owners or occupiers are as appended below :—

House and General.

Number of :—

Chimneys and Roofs repaired	...	...	...	...	165
Spoutings and rainwater pipes renewed	...	...	...	...	153
Walls rebuilt or repaired	...	...	...	...	160
Floors relaid or repaired	...	...	...	...	109
Ceilings and wall-plasters repaired	...	...	...	...	285
Window frames and sash cords repaired	...	...	...	...	128
Fireplaces repaired	...	...	...	...	18
Doors and frames repaired	...	...	...	...	138
Sinks and waste pipes repaired or provided			...	...	93
House water supplies repaired	...	...	...	...	26
Yard surfaces relaid or repaired	...	...	...	...	22
Refuse bins renewed	...	...	...	...	180
Staircases repaired	...	...	...	...	17
Foodstores provided or improved	...	...	...	...	15
Coal storage provided or improved	...	...	...	...	6
Accumulations of Rubbish removed	...	...	...	...	183

House Drainage.

Number of :—

Drains tested, relaid or repaired	...	...	...	...	169
New gullies, traps or grids provided	...	...	...	...	26
Soil and vent pipes provided or renewed	...	...	...	...	8
Stoppages in drains removed by Owners	...	...	...	...	52
Stoppages in drains removed by Council without Notices being served	...	...	...	...	574

Water Closets.

Number of :—

Additional Accommodation Provided	...	...	...	7
Water supplies repaired	...	...	...	22
Basins renewed	...	...	...	26
Other repairs	...	...	...	33
Stoppages in drains removed by Owners	...	...	...	15
Stoppages in drains removed by Council without Notices being served	...	...	...	111

COMPLAINTS.

These are enumerated below and it will be seen that Housing defects are the main item of complaint :

Drain stoppages	...	...	...	...	219
Housing defects	...	...	...	...	188
Dilapidated Refuse Bins	...	...	...	...	98
Verminous conditions	...	...	...	...	45
Rat and/or Mice infestations	...	...	...	...	126
Accumulations of Rubbish	...	...	...	...	75
Accumulations of Household Refuse	...	...	...	...	77
Miscellaneous	...	...	...	...	143

At private premises a total of 685 drains were cleared by the workmen of the Department. These stoppages being of a minor character were cleared by a vacuum pump so avoiding the necessity of serving notices and in each case the nuisance was abated with the minimum of delay.

COMMON LODGING HOUSES.

There are no common lodging houses in the District.

SHOPS.

157 visits were made in connection with the administration of this legislation.

At shop premises in your District the undermentioned infringements were complied on intimation notices :—

Washing facilities provided	...	...	...	4
Premises cleansed, redecorated or repaired				3

ATMOSPHERIC POLLUTION.

Instruments in use in the District comprise :—

- 5—Standard Deposit Gauges.
- 2—Lead Peroxide Instruments.
- 1—Volumetric Smoke Apparatus.

In conjunction with the expressed wish of the Tees-side Clean Air Committee your Authority ceased to obtain Long Analyses but continued to obtain monthly readings from Deposit Gauges in connection with pH. value; Undissolved Matter; Rainfall and Fe_2O_3 . The latter I consider to be most essential as a check against emissions from Iron and Steel Industries especially bearing in mind the new process of oxygen lancing.

STANDARD DEPOSIT GAUGES.

Monthly averages for period ending 31st December, 1962.

Short Analysis.

Site	p.H.	Undissolved Matter (Tons/Sq. Mile)	Rainfall (Inches)	Fe_2O_3
Cleveland House, ... Grangetown ...	6.4 (5.84)	53.81 (34.83)	1.4 (1.61)	6.28
Lanny's, Grangetown ...	6.22 (5.86)	14.28 (12.37)	1.4 (1.62)	3.23
Labour Exchange, South Bank ...	6.56 (6.26)	23.33 (18.36)	1.34 (1.64)	6.04
St. Peter's Modern School, South Bank ...	6.38 (6.10)	12.13 (9.19)	1.31 (1.61)	4.24
Crossbeck Convent, Normanby ...	6.65 (6.44)	8.61 (8.00)	1.62 (1.61)	1.30

Results for previous year in brackets.

Sulphur Dioxide.

The average monthly readings of SO₃ per 100 square centimetres per day are as follows :—

	1961	1962
Cleveland House ...	1.91	2.02
Crossbeck Convent	1.03	1.41

Daily Air Pollution Measurement.

Readings in connection with the Normanby Clinic machine are set out below. A further machine was brought into being at the Town Hall in January, 1963 and will be reported upon as a comparison in next year's Annual Report.

				Microgrammes per cubic metre		
				Average Value	Highest Value	Lowest Value
January	...	...	...	Machine out of order		
February	...	...	...	do.		
March	...	...	...	263.5	564	88
April	...	...	...	106.7	188	28
May	...	...	...	128	244	72
June	...	...	...	68.2	164	40
July	...	...	...	113.8	364	40
August	...	...	...	45.7	108	16
September	...	...	...	112.4	208	52
October	...	...	...	134.2	252	52
November	...	...	...	238.5	560	16
December	...	...	...	344.6	944	84

General.

Several complaints in connection with emissions from Steel Furnaces, Ore Sintering Plant and Coke Ovens were received during the year. The District Alkali Inspector, who is responsible for these Scheduled Processes, has proved to be most co-operative and his valued assistance is very much appreciated.

Towards the end of the year the Teesville East No. 1 Smoke Control Area was represented to the Ministry. At the time of writing the Order has been confirmed and it shall become operative on the 1st November, 1963.

MOVEABLE DWELLINGS.

There are no licensed sites within your District. Travelling gypsies have encamped in certain parts of your Area namely; Flatts Lane and Skippers Lane and in connection with the moving on of these people 100 visits of inspection have been entailed. The sites in question have usually been left littered and untidy and this in itself justifies that this type of person be kept on the move. In cases of difficulty police assistance has been sought and found to be readily available.

DISINFESTATION.

This work is carried out on a part time basis by the Rodent Operator.

During the year 139 treatments were carried out at Domestic Premises whilst 31 treatments took place at Industrial Undertakings.

It would appear that infestations today are chiefly of the cockroach family.

Towards the end of the year the Rodent Operator of your Authority retired after completing 41 years in the Department, my thanks and appreciation are expressed to this gentleman for his most valuable and conscientious service.

PUBLIC CLEANSING AND SALVAGE.

The present Refuse Collection Vehicles consist of :—

				Year	Capacity.
1	Karrier Bantam		purchased	1955	7 cub. yds.
1	Karrier Gamecock Dual Tip (with Loaders' Cab)		„	1957	18 cub. yds.
1	„	„	„	1960	18 cub. yds.
2	„	„	„	1961	18 cub. yds.
1	„	„	„	1962	18 cub. yds.

During the year the older side loading refuse vehicle was replaced with a rear loading, larger capacity, refuse collection vehicle. It is the intention to gradually standardise the fleet on rear loading gravity packing larger capacity vehicles. The light and bulky condition of the refuse demands this type of vehicle.

A weekly collection of refuse was maintained during 1962, and in relation to costing I have appended the Ministry's return for the year.

COST STATEMENT.

Item	Particulars	Street Sweeping and Watering	Street Gulley Cleansing	Total	Percentage of total gross expenditure
	REVENUE ACCOUNT	£	£	£	%
I	GROSS EXPENDITURE :				
	(i) Labour	8,066	666	8,732	66.2
	(ii) Transport	3,408	759	4,167	31.6
	(iii) Plant, equipment, land and buildings, etc. ...	241	12	253	1.9
	(iv) Other items	22	17	39	0.3
	(v) Total gross expenditure ...	11,737	1,454	13,191	100
2	GROSS INCOME (excluding reimbursements from Ministry of Transport and the County Council) ...	10	154	164	—
3	NET COST	11,727	1,300	13,027	—
4	Capital expenditure met from revenue (included above) ...	188	—	188	—
5	Gross expenditure on snow clearance not included previously	844	—	—	—
6	UNIT COSTS Net cost (Item 3) per street mile	£ 168	£ —	£ —	—
7	Net cost (Item 3) per 1,000 street gullies cleansed	£ —	£ 123	£ —	—
8	Net cost (Item 3) per 1,000 population	£ 317	£ 35	£ 352	—
9	Mileage of streets cleansed ... ..	...	...	...	70

Item	Particulars	Refuse		Totals	Percentage of total gross expenditure
		Collection	Disposal		
	REVENUE ACCOUNT	£	£	£	%
I	GROSS EXPENDITURE :				
	(i) Labour	15,728	1,700	17,428	62.9
	(ii) Transport	7,850	1,173	9,023	32.5
	(iii) Plant, equipment, land and buildings	230	912	1,142	4.1
	(iv) Other items	48	97	145	0.5
	(v) Total gross expenditure	23,856	3,882	27,738	100
2	GROSS INCOME (including £ — received from other local authorities)	437	2,598	3,035	—
3	NET COST	23,419	1,284	24,703	—
4	Capital expenditure met from revenue (included above)	230	104	338	—
	UNIT COSTS	s. d.	s. d.	s. d.	
5	Gross cost per ton, labour only	26 2	2 10	29 0	
6	Gross cost per ton, transport only	13 1	2 0	15 1	
7	Net cost (all expenditure) per ton	39 0	2 2	41 2	
		£	£	£	
8	Net cost per 1,000 population	633	35	668	
9	Net cost per 1,000 premises	1,950	107	2,057	
10	Area (statute acres)—land and inland water ...				5,559 acres
11	Population at 30th June, 1961 (Registrar General's Estimate)				36,970 persons
12	Total refuse collected (tons)				12,149 tons
13	Weight (cwts.) per 1,000 population per day (365 days to year)				17 cwts.
14	Number of premises from which refuse is collected				12,009 premises
15	Total refuse disposed of (of which — tons were disposed of for other local authorities) ...				11,887 tons
16	Methods of disposal (Salvage excluded) :				
	(a) Crude tipping				— %
	(b) Controlled Tipping				100 %
	(c) Direct incineration				— %
	(d) Separation and incineration				— %
	(e) Other methods (state nature)				— %
					<u>100 %</u>

17 **Salvage and Trade Refuse. Analysis of income and tonnage :**

				Income (Included in Item 2)	Tonnage Collected Included in (Item 12)
				£	Tons
Salvage :					
(a)	Raw Kitchen Waste	...		—	—
(b)	Scrap Metal	...		132	10
(c)	Waste Paper	...		1,973	247
(d)	Other Salvage	...		76	5
(e)	Totals	...	...	2,181	262
Trade Refuse				573	Included in Item No. 12 but separate figure for tonnage not available.

It will be noted that the nett cost of Refuse Collection and Disposal per 1,000 premises amounted to £2,057 or approximately 9½d. per week per premises. A reasonable charge for having the waste removed from each premises once per week and disposed of in a hygienic manner.

Refuse Disposal.

Your present tipping site is on the land of the Tees Conservancy Commissioners at Teesport. It is approximately 4 miles distance from the centre of your District and is approached by a good roadway, namely the Tees Dock Road. Tipping on this site is now in its fourth year. Builders' rubbish and certain trade wastes are accepted on your tip by agreement, from firms within your District, who are responsible for their own haulage and pay a nominal charge of 1s. od. per load for tipping facilities. Tight control is effected over this trade waste disposal as otherwise your most valuable tipping land would soon disappear.

Salvage.

Mixed waste paper, cardboard, etc. is mechanically baled and despatched to Messrs. Thames Board Mills Limited with whom you hold a contract. Incentive bonus is paid to the workmen on total sales of all salvage which includes metals and rags.

Street Sweeping.

This work is carried out by manual labour and two street sweeper collector machines. The machines are employed in the main on County Roads and Housing Estates whilst manual sweeping is employed in the built up areas of your townships.

Litter Bins.

These have been used but are not the complete answer to the problem. The public must play its part. The use of pre-packed wrappers on goods sold from mobile shops adds to the problem, especially on housing estates and here regular sweeping is the only answer.

During the year a number of portable litter bins have been introduced to some of the worst litter dropping points in your District. These have proved to be successful and contents removed there from indicate regular use. It is intended to increase the number of portable litter bins by including for their provision within each year's estimates.

Snow Removal and Gritting.

During the last two months of the year snow was encountered on a number of occasions and continued to be with us together with continuous frosts until late February. Main routes were kept clear by the liberal use of salt and grit and the only complaints received arose in connection with side street thoroughfares.

In all some 815 Tons of grit and 188 Tons of salt were used and the heavy type of rear loading refuse vehicles proved a boon in connection with gritting work. The men were able to work inside the bodies feeding the towed gritting machines. The loading of vehicles was expeditiously performed by the hydraulic shovel.

Throughout the four months period of severe weather the cleansing personnel were able to maintain a weekly collection of refuse, salvage collections suffered, but main traffic routes were kept reasonable for traffic use.

My thanks are due to the men of the Department who performed a most difficult task under very trying conditions.

FACTORIES.

70 visits of inspection were made to Factories in your District and at 16 Factories defects were found to exist and these were remedied by informal action.

A copy of the Factories Act, 1937 to 1959 report is appended herewith.

FACTORIES ACTS, 1937 to 1959.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH
in respect of the year 1962 for the Urban District of Eston in the
County of Yorkshire.

PART I OF THE ACT.

1. Inspection for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

Premises	No. on Register	Inspections	Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are enforced by Local Authorities	13	26	2	—
(ii) Factories not included in (i) in which Sec. 7 is enforced by the Local Authority	57	32	4	—
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding Outworkers' premises)	10	12	10	—
Total ...	80	70	16	—

2. Cases in which DEFECTS were found.

(If defects are discovered at the premises on two, three or more separate occasions they should be reckoned as two, three or more "cases".)

Particulars	Number of cases in which defects were found.				No. of cases in which prosecutions were instituted
	Found	Remedied	Referred		
			To H.M. Inspector	By H.M. Inspector	
Want of cleanliness (S.1) ...	2	3	—	—	—
Overcrowding (S. 2) ...	—	—	—	—	—
Unreasonable Temperature (S. 3)	—	—	—	—	—
Inadequate ventilation ...	—	—	—	—	—
Ineffective drainage of floors (S. 6) ...	—	—	—	—	—
Sanitary Conveniences (S7)					
(a) Insufficient ...	14	14	—	—	—
(b) Unsuitable or defective	1	1	—	—	—
(c) Not separate for sexes	—	—	—	—	—
Other offences against the Act (not including offences relating to Outwork)	—	—	—	—	—
Total ...	17	18	—	—	—

PART VIII OF THE ACT.

OUTWORK.

(Sections 110 and 111).

There was a NIL return in respect of Outwork.

Meat and other Foods.

Three private slaughterhouses are licensed for slaughtering within your District. These slaughterhouses are small and by no means cater for the meat requirements of the area. The premises have been approved and brought up to the necessary standards required under the Slaughterhouse Regulations.

206 visits were made to slaughterhouses in connection with meat inspection during 1962 and appended herewith are details in connection with animals slaughtered and inspected:—

Carcases Inspected and Condemned.

	Cattle Excluding Cows	Cows	Calves	Sheep and Lambs	Pigs	Horses
Number killed (if known) ...	191	41	—	581	305	—
Number inspected	191	41	—	581	305	—
All Diseases except Tuberculosis and Cysticerci. Whole carcases condemned	—	—	—	—	—	—
Carcases of which some part or organ was condemned ...	14	—	—	1	20	—
Percentage of the number inspected affected with disease other than tuberculosis and cysticerci	7.33	—	—	0.17	6.56	—
Tuberculosis only. Whole carcases condemned ...	—	—	—	—	—	—
Carcases of which some part or organ was condemned ...	1	—	—	—	1	—
Percentage of the number inspected affected with tuberculosis	0.52	—	—	—	0.33	—
Cysticercosis. Carcases of which some part or organ was condemned ...	—	—	—	—	—	—
Carcases submitted to treatment by refrigeration ...	—	—	—	—	—	—
Generalised and totally condemned	—	—	—	—	—	—

Details of Carcases and Offals condemned.

		Sts.	lbs.
1 Bovine Liver	—Cavernous Angioma	2	3
5 Bovine Livers	—Cirrhosis	6	—
2 Bovine Livers	—Abscesses	2	2
2 Sets Bovine Lungs	—Abscesses	1	—
1 Set Bovine Lungs	—Congestion	—	10
1 Set Bovine Lungs	—Pneumonia	1	8
1 Bovine Head and Tongue	—Abscesses	2	—
1 Bovine Heart	—Pericarditis	—	10
1 Bovine Intestine	—Tuberculosis	—	12
4 Pig Livers	—Cirrhosis	1	1
6 Sets Pig Kidneys	—Cysts	—	4
4 Sets Pig Kidneys	—Nephritis	—	2
4 Pig Lungs	—Pneumonia	—	6
1 Pig Head and Tongue	—Tuberculosis	—	11
2 Pig Legs	—Extensive Bruising	2	11
1 Sheep Liver	—Cysts	—	2

Condemned Meat.

This commodity is coloured by the Inspection Staff and collected when required by arrangement with a local knacker firm.

A tabulated list of condemned food, other than meat, dealt with during the year is appended herewith:—

Sugar	...	...	...	...	2 cwts.
Bacon	...	...	...	...	7 lbs.
Sausage	...	...	...	...	86 lbs.
Tinned Meat	...	...	...	...	145 tins.
„ Milk	...	...	...	...	19 tins.
„ Vegetables	...	...	...	...	180 tins.
„ Fruit	...	...	...	...	239 tins.
„ Soup	...	...	...	...	9 tins.
„ Pudding	...	...	...	...	64 tins.
„ Fish	...	...	...	...	20 tins.
„ Fruit Juice	...	...	...	...	6 tins.
„ Egg Yolks	...	...	...	...	4 tins.
Preserves	...	...	...	...	35 Jars.

Food Shops.

During the year 142 visits were made to Food Shops in the area whilst 124 visits were made to Food Preparation and Storage rooms At 2 premises works of repair, cleansing and redecorating were carried out on intimation notice and at 1 washing facilities were provided.

Appended below is a summarised list of the various types of food shops in this area :—

Small General Dealers	...	...	...	92
Grocers	...	...	...	40
Confectioners	...	...	...	32
Green Grocers and Fruiterers			...	16
Butchers	...	...	...	28
Fish Fryers	...	...	...	21
Wet Fish	...	...	...	5

Food Premises Registered Section 16 Food and Drugs Act, 1955 for the undermentioned purposes are :—

Preparation or manufacture of Sausages, etc.	23
Preparation of Fish Cakes, etc.	6
Sale and Storage of Ice Cream	151
Manufacture, Sale and Storage of Ice Cream	2

Ice Cream.

Most of the Food Shops in the District are selling pre-packed Ice Cream. This is refrigerator stored and suitable hand washing facilities are available. These two factors must be complied with before your Committee are recommended to grant registration.

During the year 20 samples of Ice Cream were obtained and submitted for Bacteriological Analysis, the results being as follows :—

- 9 Samples—Provisional Grade I.
- 8 Samples—Provisional Grade II.
- 3 Sample—Provisional Grade III.

Bakehouses.

The total number of Bakehouses registered with your Authority is 11. 26 inspections of these premises were carried out during the year. All premises were conducted satisfactorily.

Fish Shops.

7 visits of inspection were carried out to Fish Frying and Wet Fish Shop premises. All were found to be in a reasonable condition of cleanliness.

Markets.

The South Bank open Market continued to flourish and was well attended each Friday. The open Market at Grangetown continued to be held each Saturday. The latter is a small market comprised mainly of fruit and vegetable vendors.

Certain embarrassment was encountered by complaints received from householders living in close proximity to stall sitings of the South Bank Market. These are justified and are mainly in connection with the blowing about of rubbish and market debris into their properties. The Department endeavour to ease the problem by providing refuse bins to each stallholder and sweepers are employed cleaning up throughout the day. The final solution would appear to be the movement of the market onto its own site, this should materialise in the ensuing year.

MILK SUPPLY.

There are 69 premises registered for the purpose of Milk distribution in your District. The majority of these are of the "General Dealer" type who are retailing bottled milks and hold "Dealers' Licences". The majority of the milk consumed in your District is "Pasteurised" whilst a small amount of "Sterilised" and "Tuberculin Tested Farm Bottled" is retailed.

Sampling.

During the year, 32 samples of milk were obtained and submitted for Bacteriological Analysis to the Public Health Laboratory Service.

Details of the results are tabulated below :—

Total No. of Samples	Designation of Sample	Analysis Result	
		Satisfactory	Not Satisfactory
2	Tuberculin Tested Milk (Farm bottled)	2	—
28	Pasteurised Milk	26	2
2	Sterilised Milk	2	—

Mobile Shops.

Approximately 49 Vans are operating within your area. During the year these have been inspected on some 105 occasions, when advice has been given re food storage and general hygiene. No serious offences have been found to exist other than on 7 occasions carelessness was observed in connection with hot water supplies for hand washing facilities. Letters of warning to the firms concerned put the matters in order and acted as good hygiene propaganda.

As mentioned in the Annual Report of last year, Mobile Shops are here to stay and I think the only method of enforcing proper control over this type of business is via registration by the local authority. In this connection it is high time that national legislation was brought into being and proper selling laws defined as in the shop's legislation.

RODENT CONTROL.

Your Authority continued to employ a Rodent Operator on a part time basis. During the year 286 private premises and 23 business premises were treated. The latter was chargeable work calculated on a time and materials basis.

During the fiscal year ending 31st March, 1963, two maintenance treatments were carried out to the Public Sewers in the District and records indicate that infestations occurring therein were of a minor character.

INFECTIOUS DISEASES PREVENTION.

204 visits were made in connection with the control of Infectious Diseases. The homes of all notified cases were visited and where necessary terminal disinfections carried out.

PUBLIC SWIMMING BATHS.

Information in connection with this building has been obtained from the Baths Superintendent, to whom thanks are tendered.

The building consists of two swimming pools, slipper baths for each sex and a cafe. Details of the swimming pools are as under :—

1. MAIN POOL.

Length 110 feet. Breadth 42 feet. Depth ranging from 3 feet to 12 feet 6 inches. Water capacity 220,000 gallons.

2. LEARNERS' POOL.

Length 45 feet. Breadth 20 feet. Depth ranging from 2 feet 6 inches to 3 feet 6 inches. Water capacity 17,000 gallons.

Water is obtained from the main supply of the water undertakers for the District, namely : The Tees Valley and Cleveland Water Board.

The water from both swimming pools is pressure filtered at the rate of 60,000 gallons per hour and all water is completely changed once every 4 hours.

Sterilisation is carried out by chlorination on the “ Breakpoint Principle ” and bacteriological samples of the swimming bath water are obtained adjoining the inlet and outlet points of both baths each month.

36 samples were obtained during the year, all proved satisfactory.

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